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U. S. FOREST PRODUCTS LABORATORY

MADISON, WISCONSIN

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U. S. Department of Agriculture

LIST OF PUBLICATIONS, JANUARY 1 TO JUNE 30, 1928

Publications available for distribution at the laboratory are marked with an asterisk (*). Those not so marked are available as noted after the title.

Trade journals and magazines referred to, if not available in your local library, may be obtained from the publishers listed on pages 7 and 8.

BOXING AND CRATING

Sheep crate should protect as well as confine the animal, T. A. Carlson, (in U. S. Dept. of Agriculture Yearbook, 1927, p. 576). Yearbooks may generally be found in the public libraries.

Wood that is dry holds nails better than green wood, J. M. Gahagan, (in U. S. Dept. of Agriculture Yearbook, 1927, p. 711). Yearbooks may generally be found in the public libraries.

CHEMICAL PROPERTIES OF WOOD

*Effect of decay on the chemical composition of wood, by L. F. Hawley, L. C. Fleck, and C. A. Richards, (in Industrial and Engineering Chemistry, May, 1928, p. 504)

Effect of electrolytes on electroendosmose through wood membranes, by A. J. Stamm, (in Colloid Symposium Monographs, 1928, V.5, published by the Chemical Catalog Company, Inc., New York City, price \$6.50)

*Furfural and carbon dioxide from wood before and after chlorination, by G. J. Ritter and L. C. Fleck, (in Industrial and Engineering Chemistry, April, 1928,)

Hardwood tar oils, By L. F. Hawley, (in Drug and Chemical Markets, January, 1928)

DECAY OF WOOD

*Comparative decay resistance of heartwood of different native species when used under conditions which favor decay, by G. M. Hunt. Mimeograph R800

*Prevention of decay of wood in buildings, by R. H. Colley. Mimeograph R82

Sap stain problem, by R. H. Colley, (in National Association of Commission Lumber Salesmen Annual, 1928)

GLUE, PLYWOOD, AND COATINGS

Consistency of casein glue, by F. L. Browne and Don Brouse, (in Colloid Symposium Monographs, 1928, V.5, published by the Chemical Catalog Company, Inc., New York City, price \$6.50)

Gluing Pacific Coast woods, by T. R. Truax and C. A. Harrison (in West Coast Lumberman, May 15, 1928, p. 18)

Gluing wood in aircraft work, by T. R. Truax, (in American Society of Mechanical Engineers Transactions, 1928)

Paint discoloration caused by wet wood, by C. M. Arthur, (in Southern Lumberman, April 21, 1928, p. 57)

-----Same. (in Drugs, Oils, and Paints, April, 1928, p. 375)

-----Same. Cause of paint discoloration, (in National Retail Lumber Dealer, April, 1928, p. 17)

-----Same. Wet wood discolors paint, (in Wood Construction, April 15, 1928, p. 14)

-----Same. Wet wood held the cause of paint discoloration, (in Painters' Magazine, May, 1928, p. 23)

-----Same. (in Big Trees, June 15, 1928, p. 2)

MECHANICAL PROPERTIES OF WOOD

Relation of growing space to the specific gravity and the strength of second-growth redwood, by B. H. Paul and R. F. Luxford, (in West Coast Lumberman, June 15, 1928, p. 17)

Some difficulties in pole testing, by T. R. C. Wilson, (in Engineering News-Record, March 1, 1928, p. 369)

PULP AND PAPER MANUFACTURE

*Pulping flax straw, Part 3: Hydrolysis and delignification with sodium hydroxide and with a mixture of sodium hydroxide and sodium sulphide, by M. W. Bray and C. E. Peterson, (in Paper Trade Journal, January 19, 1928, p. 48)

-----Same. (in Pulp and Paper Magazine of Canada, January 12, 1928, p. 37)

-----Same. (in Technical Association of the Pulp and Paper Industry, Technical Association papers, 1928)

*Pulping flax straw, Part 4: Further studies of hydrolysis and delignification with alkaline reagents, by E. R. Schafer and C. E. Peterson, (in Paper Trade Journal, January 19, 1928, p. 51)

-----Same. (in Pulp and Paper Magazine of Canada, April 12, 1928, p. 477)

-----Same. (in Technical Association of the Pulp and Paper Industry, Technical Association papers, 1928)

• Pulping of hardwoods and mixtures of hardwoods and conifers by the sulphite process, by W. H. Monsson, (in Paper Trade Journal, April 26, 1928, p. 59)

-----Same. (in Pulp and Paper Magazine of Canada, May 24, 1928, p. 705)

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Some experiments in processing pulp in the rod mill, by G. H. Chidester, (in Paper Trade Journal, June 21, 1928, p. 51)

-----Same. (in Technical Association of the Pulp and Paper Industry, Technical Association papers, 1928)

SEASONING OF WOOD

Firewood should be seasoned: Proper storing helps drying, by Rolf Thelen, (in U. S. Dept. of Agriculture Yearbook, 1927, p. 305). Yearbooks may generally be found in the public libraries.

Lumber, whether dry or green, should be stored under cover, by Rolf Thelen, (in U. S. Dept. of Agriculture Yearbook, 1927, p. 432). Yearbooks may generally be found in the public libraries.

Necessity of good seasoning practice for lumber, by L. L. DeFlon, (in Washington University, Seattle, Washington, Forest Club Quarterly, April, 1928)

Wood well seasoned gives best results in farm construction, by Rolf Thelen, (in U. S. Dept. of Agriculture Yearbook, 1927, p. 713). Yearbooks may generally be found in the public libraries.

*Moisture content of softwood lumber at the time of shipment from the mill, by E. C. Peck, (in American Lumberman, April 21, 1928, p. 36)

-----Same. (in Southern Lumberman, April 21, 1928, p. 40)

-----Same. (in Timberman, May, 1928, p. 38)

Moisture content of softwood lumber, by Rolf Thelen, (in Sash-Door-Finish, May, 1928, p. 30)

STRUCTURE OF WOOD

*Importance of physical investigations in the study of the constitution of wood, by A. J. Stamm, (in Journal of Chemical Education, February, 1928, p. 129)

TURPENTINING

Trees for turpentine and timber may pay on poor crop land, by Eloise Gerry, (in U. S. Dept. of Agriculture Yearbook, 1927, p. 649). Yearbooks may generally be found in the public libraries.

WOOD PRESERVATION

*Factors to be considered in the testing of preservatives, by Ernest Bateman, (in American Wood Preservers' Association Proceedings, 1928)

*Factors which influence the decay of untreated wood in service, by G. M. Hunt. Mimeograph R68

*Relation of treating variables to the penetration and absorption of preservatives into wood, Part 4: Experiments on mountain Douglas fir, eastern hemlock, and cork bark fir, by J. D. MacLean, (in American Wood Preservers' Association Proceedings, 1928)

Wood preservatives add to durability of farm structures, by G. M. Hunt, (in U. S. Dept. of Agriculture Yearbook, 1927, p. 711). Yearbooks may generally be found in the public libraries.

WOOD UTILIZATION

*Cutting sizes of the furniture industry, by A. O. Benson, (in American Lumberman, April 14, 1928, p. 48)

-----Same. (in Southern Lumberman, April 14, 1928, p. 74)

-----Same. (in Furniture Manufacturer, May, 1928, p. 63)

Making new woods useful in industry, by Arthur Koehler, (in Industrial Woodworking, March, 1928, p. 34)

*Outlets for wood waste: A general statement of actual and potential uses of various kinds of wood waste by G. C. Morbeck. Mimeograph R64

Possibilities of more complete forest utilization in the Lake States by integration of industries, by R. D. Garver, (in American Lumberman, June 16, 1928, p. 43)

Quality lumber, or junk? by Arthur Koehler, (in Southern Lumberman, March 31, 1928, p. 31)

-----Same. Identification of the pines, (in National Retail Lumber Dealer, April, 1928, p. 70)

-----Same. (in Lumber Trade Journal, April 1, 1928, p. 44)

*Utilization of shortleaf pine at small mills, Ouachita National Forest, Arkansas: Production costs, lumber grades, mill and woods practice in relation to forest management and profitable lumbering, by R. D. Garver and Ray Miller, with the assistance of District 7, District 2, and the Southern Forest Experiment Station. Mimeograph

MISCELLANEOUS

Applied research, by C. P. Winslow, (in "Forestry in Wisconsin: a new outlook; official report of the Wisconsin commercial forestry conference." Distributed by H. L. Ashworth, 49 E. Wells St., Milwaukee. \$1.00)

Effect of water in prolonged contact with the stem of white ash, by B. H. Paul, (in Southern Lumberman, February 18, 1928, p. 57)

Forestry conference: A national viewpoint, by C. P. Winslow, (in Wisconsin Land of Lakes Magazine, April-May, 1928, p. 24)

Home builder conserves, by Aldo Leopold, (in American Forests and Forest Life, May, 1928, p. 276)

Manual for the inspection of aircraft wood and glue, for the United States Navy; prepared by Forest Products Laboratory. May be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., for \$0.75, (cash or money order)

- Price of fires in shortleaf pine, by R. D. Garver, (in American Lumberman, May 26, 1928, p. 41)
- Same. (in Southern Lumberman, May 26, 1928, p. 39)
- Special propeller protractor, by A. L. Heim, (in U. S. Advisory Committee for Aeronautics, Technical Notes No. 272)
- Tests on six Argentine woods, by Arthur Koehler, (in Yale University, New Haven, Connecticut, School of Forestry, Tropical Woods No. 14)
- Tornado-resistant construction of buildings possible by venting, by L. V. Teesdale, (in Engineering and Contracting, June, 1928, p. 318)
- Woods' inherent exclusive qualities, by Arthur Koehler, (in Packages, April, 1928, p. 22)

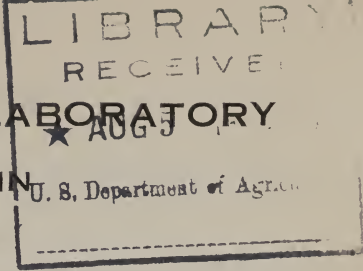
List of

PUBLISHERS OF TRADE JOURNALS AND MAGAZINES

- American Forests and Forest Life - American Forestry Assn., Washington, D. C.
- American Lumberman, 431 S. Dearborn St., Chicago, Ill.
- American Society of Mechanical Engineers - 20th. & Northampton Sts., Easton, Pa.
- American Wood Preservers' Association, 228 N. LaSalle St., Chicago, Ill.
- Big Trees - West Coast Lumber Trade Extension Bureau, Seattle, Wash.
- Drug & Chemical Markets - Drug & Chemical Markets, Inc., 3 Park Place, New York City
- Drugs, Oils and Paints - G. B. Heckel, 1002 Public Ledger Bldg., Philadelphia, Pa.
- Engineering & Contracting, 221 E. 20th. St., Chicago, Ill.
- Engineering News-Record - McGraw-Hill Pub. Co., 10th. Ave. at 36th. St., New York City
- Furniture Manufacturer - Periodical Pub. Co., Kelsey Bldg., Grand Rapids. Mich.

Industrial & Engineering Chemistry - American Chemical
Society, Mills Bldg., Washington, D.C.
Industrial Woodworking - Practical Publications, Inc.,
802 Wulsin Bldg., Indianapolis, Ind.
Journal of Chemical Education - American Chem. Society,
Easton, Pa.
Lumber Trade Journal, New Orleans, La.
National Association of Commission Lumber Salesmen, 310
S. Michigan Ave., Chicago, Ill.
National Retail Lumber Dealer, 404 N. Wesley Ave., Mount
Morris, Ill.
Packages - Packages Pub. Co., 304-309 Montgomery Bldg.,
Milwaukee, Wis.
Painters' Magazine, 12 Gold St., New York City
Paper Trade Journal - Lockwood Trade Journal Co., 10 E.
39th. St., New York City
Pulp & Paper Magazine of Canada - Industrial & Educational
Pub. Co., Gardenvale, Quebec, Canada
Sash-Door-Finish - Progress Pub. Co., Montgomery Bldg.,
Milwaukee, Wis.
Southern Lumberman - J. H. Baird Pub. Co., Presbyterian
Bldg., Nashville, Tenn.
Technical Assn. of the Pulp & Paper Industry, 18 E. 41st.
St., New York City
The Timberman - G. M. Cornwall, 616 Spalding Bldg.,
Portland, Ore.
West Coast Lumberman - West Coast Lumberman, Inc., 334-
335 Henry Bldg., Seattle, Wash.
Wisconsin Land O' Lakes Magazines, 216 W. Water St.,
Milwaukee, Wis.
Wood Construction, 24 W. Main St., Xenia, O.

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LIST OF PUBLICATIONS, JULY 1 TO DECEMBER 31, 1928

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Trade journals and magazines referred to, if not available in your local library, may be obtained from the publishers listed on page 7.

THE CHEMISTRY OF WOOD

Composition and structure of the cell wall of wood, G. J. Ritter, (in Industrial and Engineering Chemistry Sept., 1928, pp. 941-45)

*Occurrence of pinite in redwood, E. C. Sherrard and E. F. Kurth, (in Industrial and Engineering Chemistry, July, 1928, pp. 722-23) Reprint.

Structure of softwoods as revealed by dynamic physical methods, A. J. Stamm, (in National Symposium on Colloid Chemistry, Colloid Symposium Monographs, 1928. V.6, published by the Chemical Catalog Company, Inc., New York City, price \$6.50)

*Tannin content of Alaskan mountain hemlock bark, Tsuga mertensiana, P. B. Davidson and E. C. Sherrard, (in Journal of the American Leather Chemists Association, Aug., 1928, pp. 371-72) Reprint.

GLUE, PLYWOOD, AND COATINGS

Gluing of wood, T. R. Truax, (in Packing and Shipping, July, 1928, pp. 7-11)

Gluing practice at aircraft manufacturing plants and repair stations, T. R. Truax, (in U. S. Advisory Committee for Aeronautics, Technical Notes, No. 291, July, 1928)

Paint discoloration caused by wet wood, C. M. Arthur, (in Mississippi Valley Lumberman, July 20, 1928, p. 37)

MECHANICAL PROPERTIES OF WOOD

Bearing strength of wood under steel aircraft bolts and washers, and other factors influencing fitting design, G. W. Trayer, (in U. S. Advisory Committee for Aeronautics, Technical Notes, No. 296, Oct., 1928)

*Instructions for using Forest Products Laboratory formula for wooden columns, Oct., 1928. Mimeograph R822

*Some tests of end-matched lumber, T. R. C. Wilson, (in Southern Lumberman, Dec. 22, 1928, pp. 197-202)

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Bleaching of wood pulp, Part 6: Effect of bleach ratio on the color, reaction rate, and chemical composition in bleaching sulphite pulp, P. K. Baird, (in Paper Mill and Wood Pulp News, Nov. 10, 1928, pp. 9-10, 12, 14, 16, 44)

-----Same. (in Paper Trade Journal, Nov. 29, 1928, pp. 39-44)

Bleaching of wood pulp, Part 7: Effect of agitation on the color, reaction rate, and chemical composition in bleaching sulphite pulp at several consistencies P. K. Baird and R. H. Doughty, (in Paper Mill and Wood Pulp News, Nov. 3, 1928, pp. 18, 20, 22)

-----Same. (in Paper Trade Journal, Nov. 29, 1928, pp. 44-46)

Chemical analysis of pulps and pulp woods, M. W. Bray,
(in Paper Trade Journal, Dec. 20, 1928, pp. 59-68)

Chemistry of the alkaline pulp processes, Part 2: Effect
of temperature on the rate of delignification and
hydrolysis of spruce wood with sodium hydroxide,
M. W. Bray, (in Paper Trade Journal, Dec. 6, 1928,
pp. 64-70)

*Chemistry of the cellulose determination, C. E. Peterson
and M. W. Bray, (in Industrial and Engineering
Chemistry, Nov., 1928, pp. 1210-13) Reprint.

Hardwoods for pulp and paper, C. E. Curran, (in Paper
Mill and Wood Pulp News, Nov. 17, 1928, pp. 12,
14, 38-40)

Investigating white water losses, G. H. Chidester and
E. R. Schafer, (in Paper Mill and Wood Pulp News,
Nov. 24, 1928, pp. 2, 4)

*Manual of standard testing methods for pulpwood, pulp,
stuff, and paper, Forest Products Laboratory, Oct.
31, 1928. Mimeograph R506.

*Microstructure of a wood pulp fiber, G. J. Ritter and
G. H. Chidester, (in Pulp and Paper Magazine of
Canada, Nov. 15, 1928, pp. 1617-24) Reprint.

-----Same. (in Paper Trade Journal, Oct. 25, 1928,
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*Mill scale demonstration of temperature control in sul-
phite pulping, G. H. Chidester, (in Paper Trade
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*Opacity determination with the Ives tint photometer, R.
H. Doughty, (in Paper Trade Journal, Nov. 8, 1928,
pp. 66-69) Reprint.

Paper board manufacturing problems, C. C. Heritage, (in
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Pulp and paper work at Madison, C. P. Winslow, (in Paper Mill and Wood Pulp News, Oct. 13, 1928, pp. 9, 43-44)

*Pulping eastern hemlock by the sulphite process, Part 1: Effect of varying the time and the temperature of impregnation, W. H. Monsson and G. H. Chidester, (in Paper Trade Journal, Nov. 15, 1928, pp. 45-47)

*Pulping flax straw, Part 5: Production of pulp by the chlorine process, E. R. Schafer & C. E. Peterson, (in Paper Trade Journal, Oct. 18, 1928, pp. 41-46) Reprint.

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Relation of the work of the U. S. Forest Products Laboratory to the pulp and paper industry, C. C. Heritage, (in Pacific Pulp and Paper Industry, Dec., 1928, pp. 36-37, 60, 62)

-----Same. (in West Coast Lumberman, Nov. 15, 1928, pp. 26, 28)

*Recording the history of pulpwood, C. C. Heritage and W. H. Monsson, (in Paper Trade Journal, Nov. 1, 1928, pp. 52-55) Reprint.

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-----Same. (in Paper Trade Journal, Oct. 25, 1928, pp. 129-30)

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*Surveying the mill for white water losses to indicate possible savings, G. H. Chidester and E. R. Schafer, (in Paper Trade Journal, Dec. 13, 1928, pp. 57-59) Reprint.

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- *Work of the Forest Products Laboratory in relation to the pulp and paper industry, C. P. Winslow and C. C. Heritage, (in Paper Trade Journal, Nov. 15, 1928, pp.48-49) Reprint.

SEASONING OF WOOD

- *Changes in moisture content of lumber during rail shipment, G. E. French, (in American Society of Mechanical Engineers, Transactions, V. 50, No. 14, May August, 1928, pp. 1-3) Reprint.
- *Moisture content of softwood lumber shipped from western mills in the summer, E. C. Peck, (in American Lumberman, Oct. 20, 1928, pp. 32-34) Reprint.
- *Report of a study of the moisture content of lumber shipped from two northern white pine mills during July, 1928, E. C. Peck, Sept. 28, 1928.
Mimeograph R 1
- *Report on the moisture content of lumber as shipped from the mills of the Inland Empire during the summer, E. C. Peck, Sept. 28, 1928, Mimeograph R4
- *Report on the moisture content of lumber as shipped from California mills in the summer, E. C. Peck, Sept. 28, 1928. Mimeograph R7
- *Report on the moisture content of lumber as shipped from Oregon and Washington mills during the summer, E. C. Peck, Sept. 28, 1928. Mimeograph R8.
- *Shrinkage of boards of Douglas fir, western yellow pine and the southern pines, E. C. Peck, (in American Lumberman, July 14, 1928, pp. 52-54) Reprint.
- Same. (in Sash-Door-Finish, Aug., 1928, pp. 12-13)
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SHIPPING CONTAINERS

Forest products expert replies to many questions of coo-
perage manufacturers, H. D. Tiemann, (in Barrel and
Box, Dec., 1928, pp. 23-24)

*Seals for fiber boxes, T. A. Carlson, (in Fibre Con-
tainers, Dec., 1928, pp. 14, 16, 18, 20) Reprint.
-----Same. (in Packing and Shipping, Dec., 1928, pp.
14-17, 37)

WOOD STRUCTURE

Grain of wood with special reference to the direction
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Furnishings, July 16, 1928, pp. 163-66)

MISCELLANEOUS

*A look into the future on the control of blue stain, C.
A. Richards, (in Southern Lumberman, Dec. 22, 1928,
pp. 207-8)

Boring trees for pine gum, Arthur Koehler, (in Naval
Stores Review, Oct. 27, 1928, p. 9)

Efficient logging practice, R. D. Garver, (in "Forestry-
in Wisconsin: official report of the Wisconsin com-
mercial forestry conference." Distributed by H. L.
Ashworth, 49 E. Wells St., Milwaukee. \$1.00)

*The need of research on tropical woods before marketing
them, Arthur Koehler, (in American Society of Me-
chanical Engineers, Transactions, V. 50, No. 14,
May-August, 1928, pp. 5-12) Reprint.

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- American Lumberman, 431 S. Dearborn St., Chicago, Ill.
American Society of Mechanical Engineers, 20th & North-
ampton Sts., Easton, Pa.
Barrel and Box, 542 S. Dearborn St., Chicago, Ill.
Fibre Containers, 228 LaSalle St., Chicago, Ill.
Furniture and Furnishings, 372 Flinders Lane, Melbourne,
Victoria, Australia.
Mississippi Valley Lumberman, 1007-1011 Lumber Exchange,
Minneapolis, Minn.
Naval Stores Review, 202 E. Bay St., Savannah, Ga.
Pacific Pulp and Paper Industry, 71 Columbia St.,
Seattle, Wash.
Packing and Shipping, 30 Church St., New York City.
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